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| L3 and 562/\$ | 48 |

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 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

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L4

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DATE: Sunday, April 29, 2007 [Purge Queries](#) [Printable Copy](#) [Create Case](#)

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| <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i> | | | |
| <u>L4</u> | L3 and 562/\$ | 48 | <u>L4</u> |
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| <u>L2</u> | trimellitic acid and pseudocumene | 329 | <u>L2</u> |
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| <u>L1</u> | 4398040.pn. | 1 | <u>L1</u> |

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Search Results - Record(s) 1 through 10 of 48 returned.

☐ 1. Document ID: US 20060281629 A1

L4: Entry 1 of 48

File: PGPB

Dec 14, 2006

PGPUB-DOCUMENT-NUMBER: 20060281629

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060281629 A1

TITLE: Catalyst comprising N-substituted cyclic imide compound and process for producing organic compound using the catalyst

PUBLICATION-DATE: December 14, 2006

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------|------------|-------|---------|
| Ishii; Yasutaka | Osaka | | JP |
| Nakano; Tatsuya | Himeji-shi | | JP |
| Iwahama; Takahiro | Himeji-shi | | JP |
| Hirai; Naruhisa | Himeji-shi | | JP |

US-CL-CURRENT: [502/167](#); [562/415](#), [562/599](#)

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 2. Document ID: US 20050215815 A1

L4: Entry 2 of 48

File: PGPB

Sep 29, 2005

PGPUB-DOCUMENT-NUMBER: 20050215815

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050215815 A1

TITLE: Method of producing trimellitic acid

PUBLICATION-DATE: September 29, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|----------------|----------|-------|---------|
| Roh, Hang-Duk | Gyeonggi | | KR |
| Lee, Jong-In | Gyeonggi | | KR |
| Shim, Hyun-Sup | Seoul | | KR |
| Kim, Byung-Hui | Gyeonggi | | KR |

Cho, Jun-Sang
Lee, Yoon-Seo

Gyeonggi
Gyeonggi

KR
KR

US-CL-CURRENT: 562/412

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KUMC | Draw. D. |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

☐ 3. Document ID: US 20050137420 A1

L4: Entry 3 of 48

File: PGPB

Jun 23, 2005

PGPUB-DOCUMENT-NUMBER: 20050137420
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050137420 A1

TITLE: Anthracene and other polycyclic aromatics as activators in the oxidation of aromatic hydrocarbons

PUBLICATION-DATE: June 23, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-----------------------|------------|-------|---------|
| Schammel, Wayne P. | Plainfield | IL | US |
| Adamian, Victor A. | Naperville | IL | US |
| Viswanath, Yenamandra | Naperville | IL | US |
| Zakharov, Igor V. | Moscow | | RU |

US-CL-CURRENT: 562/416

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KUMC | Draw. D. |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

☐ 4. Document ID: US 20040054219 A1

L4: Entry 4 of 48

File: PGPB

Mar 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040054219
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040054219 A1

TITLE: Process for producing trimellitic acid

PUBLICATION-DATE: March 18, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------|---------------|-------|---------|
| Nagao, Shinichi | Kurashiki-shi | | JP |
| Kuzuhara, Ikutaro | Kurashiki-shi | | JP |
| Ogawa, Hiroshi | Kurashiki-shi | | JP |

US-CL-CURRENT: 562/413

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 5. Document ID: US 20030208091 A1

L4: Entry 5 of 48

File: PGPB

Nov 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030208091

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030208091 A1

TITLE: Process for producing pyromellitic acid

PUBLICATION-DATE: November 6, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-----------------|-----------|-------|---------|
| Tanaka, Kazuo | Kurashiki | | JP |
| Ogawa, Hiroshi | Kurashiki | | JP |
| Maruki, Ikutaro | Kurashiki | | JP |
| Okoshi, Atsushi | Kurashiki | | JP |

US-CL-CURRENT: 562/412; 562/421

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
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☐ 6. Document ID: US 20020151745 A1

L4: Entry 6 of 48

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020151745

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020151745 A1

TITLE: Process for producing pyromellitic acid

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-----------------|-----------|-------|---------|
| Tanaka, Kazuo | Kurashiki | | JP |
| Ogawa, Hiroshi | Kurashiki | | JP |
| Maruki, Ikutaro | Kurashiki | | JP |
| Okoshi, Atsushi | Kurashiki | | JP |

US-CL-CURRENT: 562/421

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
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☐ 7. Document ID: US 20010041811 A1

L4: Entry 7 of 48

File: PGPB

Nov 15, 2001

PGPUB-DOCUMENT-NUMBER: 20010041811
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010041811 A1

TITLE: Production of high purity aromatic carboxylic acid by oxidation in benzoic acid and water solvent

PUBLICATION-DATE: November 15, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|--------------------|------------|-------|---------|
| Sikkenga, David L. | Wheaton | IL | US |
| Pandya, Alpen K. | Naperville | IL | US |
| Zaenger, Ian C. | Naperville | IL | US |
| Abrams, Kenneth J. | Naperville | IL | US |
| Bartos, Thomas M. | Naperville | IL | US |

US-CL-CURRENT: 562/416; 562/417

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

☐ 8. Document ID: US 7115541 B2

L4: Entry 8 of 48

File: USPT

Oct 3, 2006

US-PAT-NO: 7115541
DOCUMENT-IDENTIFIER: US 7115541 B2

TITLE: Catalyst comprising n-substituted cyclic imides and processes for preparing organic compounds with the catalyst

PRIOR-PUBLICATION:

| DOC-ID | DATE |
|-------------------|------------------|
| US 20030013603 A1 | January 16, 2003 |

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

☐ 9. Document ID: US 6888023 B2

L4: Entry 9 of 48

File: USPT

May 3, 2005

US-PAT-NO: 6888023
DOCUMENT-IDENTIFIER: US 6888023 B2

TITLE: Process for producing pyromellitic acid

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 10. Document ID: US 6835852 B2

L4: Entry 10 of 48

File: USPT

Dec 28, 2004

US-PAT-NO: 6835852

DOCUMENT-IDENTIFIER: US 6835852 B2

TITLE: Process for producing trimellitic acid

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
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☐ 11. Document ID: US 6696604 B2

L4: Entry 11 of 48

File: USPT

Feb 24, 2004

US-PAT-NO: 6696604

DOCUMENT-IDENTIFIER: US 6696604 B2

TITLE: Addition of mineral acids or salts thereof to a TMA production process

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequence | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|-------------|--------|------|--------|

☐ 12. Document ID: US 6562997 B2

L4: Entry 12 of 48

File: USPT

May 13, 2003

US-PAT-NO: 6562997

DOCUMENT-IDENTIFIER: US 6562997 B2

TITLE: Production of high purity aromatic carboxylic acid by oxidation in benzoic acid and water solvent

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequence | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|-------------|--------|------|--------|

☐ 13. Document ID: US 6194607 B1

L4: Entry 13 of 48

File: USPT

Feb 27, 2001

US-PAT-NO: 6194607

DOCUMENT-IDENTIFIER: US 6194607 B1

**** See image for Certificate of Correction ****

TITLE: Method of producing aromatic carboxylic acids by oxidizing alkyl aromatic hydrocarbons or partially oxidized intermediates thereof

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequence | Attachments | Claims | KWIC | Draw D |
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☐ 14. Document ID: US 6180822 B1

L4: Entry 14 of 48

File: USPT

Jan 30, 2001

US-PAT-NO: 6180822

DOCUMENT-IDENTIFIER: US 6180822 B1

**** See image for Certificate of Correction ****

TITLE: Method of producing aromatic carboxylic acids by oxidizing alkyl aromatic compounds or partially oxidized intermediates thereof with carbon dioxide containing gas

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
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☐ 15. Document ID: US 6175038 B1

L4: Entry 15 of 48

File: USPT

Jan 16, 2001

US-PAT-NO: 6175038

DOCUMENT-IDENTIFIER: US 6175038 B1

**** See image for Certificate of Correction ****

TITLE: Method of producing aromatic carboxylic acids by oxidizing alkyl aromatic compounds or partially oxidized intermediates thereof with oxygen-enriched gas

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 16. Document ID: US 5895820 A

L4: Entry 16 of 48

File: USPT

Apr 20, 1999

US-PAT-NO: 5895820

DOCUMENT-IDENTIFIER: US 5895820 A

TITLE: Process for the production of trimellitic acid and process for the production of trimellitic acid anhydride

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 17. Document ID: US 5880313 A

L4: Entry 17 of 48

File: USPT

Mar 9, 1999

US-PAT-NO: 5880313

DOCUMENT-IDENTIFIER: US 5880313 A

TITLE: Process for producing aromatic carboxylic acid

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 18. Document ID: US 5250724 A

L4: Entry 18 of 48

File: USPT

Oct 5, 1993

US-PAT-NO: 5250724

DOCUMENT-IDENTIFIER: US 5250724 A

TITLE: Process for the preparation of trimellitic acid

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 19. Document ID: US 5112992 A

L4: Entry 19 of 48

File: USPT

May 12, 1992

US-PAT-NO: 5112992

DOCUMENT-IDENTIFIER: US 5112992 A

TITLE: Production of polycarboxylic acids with hafnium-activated cobalt catalyst

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
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☐ 20. Document ID: US 5095143 A

L4: Entry 20 of 48

File: USPT

Mar 10, 1992

US-PAT-NO: 5095143

DOCUMENT-IDENTIFIER: US 5095143 A

**** See image for Certificate of Correction ****TITLE: Method for increasing the efficiency of liquid phase oxidation reactions

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
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☐ 21. Document ID: US 5095141 A

L4: Entry 21 of 48

File: USPT

Mar 10, 1992

US-PAT-NO: 5095141

DOCUMENT-IDENTIFIER: US 5095141 A

**** See image for [Certificate of Correction](#) ****

TITLE: Process for pseudocumene oxidation to trimellitic acid with mother liquor recycle

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 22. Document ID: US 5081290 A

L4: Entry 22 of 48

File: USPT

Jan 14, 1992

US-PAT-NO: 5081290

DOCUMENT-IDENTIFIER: US 5081290 A

**** See image for [Certificate of Correction](#) ****

TITLE: Process for making aromatic polycarboxylic acids and oxidation catalyst system

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 23. Document ID: US 5068406 A

L4: Entry 23 of 48

File: USPT

Nov 26, 1991

US-PAT-NO: 5068406

DOCUMENT-IDENTIFIER: US 5068406 A

TITLE: Compartmented oxidation method

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 24. Document ID: US 5041633 A

L4: Entry 24 of 48

File: USPT

Aug 20, 1991

US-PAT-NO: 5041633

DOCUMENT-IDENTIFIER: US 5041633 A

**** See image for Certificate of Correction ****

TITLE: Process for the production of an aromatic polycarboxylic acid

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 25. Document ID: US 5004830 A

L4: Entry 25 of 48

File: USPT

Apr 2, 1991

US-PAT-NO: 5004830

DOCUMENT-IDENTIFIER: US 5004830 A

**** See image for Certificate of Correction ****TITLE: Process for oxidation of alkyl aromatic compounds

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 26. Document ID: US 4992580 A

L4: Entry 26 of 48

File: USPT

Feb 12, 1991

US-PAT-NO: 4992580

DOCUMENT-IDENTIFIER: US 4992580 A

TITLE: Production of polycarboxylic acids with a molybdenum-activated cobalt catalyst

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 27. Document ID: US 4992579 A

L4: Entry 27 of 48

File: USPT

Feb 12, 1991

US-PAT-NO: 4992579

DOCUMENT-IDENTIFIER: US 4992579 A

**** See image for Certificate of Correction ****TITLE: Process for the production of trimellitic acid

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 28. Document ID: US 4948921 A

L4: Entry 28 of 48

File: USPT

Aug 14, 1990

US-PAT-NO: 4948921

DOCUMENT-IDENTIFIER: US 4948921 A

**** See image for Certificate of Correction ****

TITLE: Process for the production and recovery of trimellitic acid

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 29. Document ID: US 4906772 A

L4: Entry 29 of 48

File: USPT

Mar 6, 1990

US-PAT-NO: 4906772

DOCUMENT-IDENTIFIER: US 4906772 A

**** See image for Certificate of Correction ****

TITLE: Process for production of polycarboxylic aromatic acids

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 30. Document ID: US 4895978 A

L4: Entry 30 of 48

File: USPT

Jan 23, 1990

US-PAT-NO: 4895978

DOCUMENT-IDENTIFIER: US 4895978 A

TITLE: Oxidation of pseudocumene to trimellitic acid enhanced by low gram atom ratios of zirconium to transition metal in oxidation catalyst system

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
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☐ 31. Document ID: US 4876386 A

L4: Entry 31 of 48

File: USPT

Oct 24, 1989

US-PAT-NO: 4876386

DOCUMENT-IDENTIFIER: US 4876386 A

** See image for [Certificate of Correction](#) **

TITLE: Process for the oxidation of di- or trimethylbenzenes in the presence of cobalt and manganese from oxidation residue incinerator ash

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
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☐ 32. Document ID: US 4876385 A

L4: Entry 32 of 48

File: USPT

Oct 24, 1989

US-PAT-NO: 4876385

DOCUMENT-IDENTIFIER: US 4876385 A

** See image for [Certificate of Correction](#) **

TITLE: Batch or semicontinuous pseudocumene oxidation and catalyst recovery and recycle

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
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☐ 33. Document ID: US 4845275 A

L4: Entry 33 of 48

File: USPT

Jul 4, 1989

US-PAT-NO: 4845275

DOCUMENT-IDENTIFIER: US 4845275 A

** See image for [Certificate of Correction](#) **

TITLE: Trimellitic acid process

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 34. Document ID: US 4845274 A

L4: Entry 34 of 48

File: USPT

Jul 4, 1989

US-PAT-NO: 4845274

DOCUMENT-IDENTIFIER: US 4845274 A

**** See image for Certificate of Correction ****TITLE: Oxidation of polyalkylaromatics

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
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☐ 35. Document ID: US 4816601 A

L4: Entry 35 of 48

File: USPT

Mar 28, 1989

US-PAT-NO: 4816601

DOCUMENT-IDENTIFIER: US 4816601 A

**** See image for Certificate of Correction ****TITLE: Process for the manufacture of trimellitic acid

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
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☐ 36. Document ID: US 4786753 A

L4: Entry 36 of 48

File: USPT

Nov 22, 1988

US-PAT-NO: 4786753

DOCUMENT-IDENTIFIER: US 4786753 A

**** See image for Certificate of Correction ****TITLE: Oxidation process for the manufacture of aromatic acids from alkylaromatic compounds

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
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☐ 37. Document ID: US 4786752 A

L4: Entry 37 of 48

File: USPT

Nov 22, 1988

US-PAT-NO: 4786752

DOCUMENT-IDENTIFIER: US 4786752 A

**** See image for Certificate of Correction ****TITLE: Catalyst recovery and recycle of catalysts in pseudocatalytic oxidation process

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
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☐ 38. Document ID: US 4786621 A

L4: Entry 38 of 48

File: USPT

Nov 22, 1988

US-PAT-NO: 4786621

DOCUMENT-IDENTIFIER: US 4786621 A

**** See image for Certificate of Correction ****TITLE: Process for recovery of cobalt and manganese for oxidation residue incinerator ash

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
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☐ 39. Document ID: US 4769488 A

L4: Entry 39 of 48

File: USPT

Sep 6, 1988

US-PAT-NO: 4769488

DOCUMENT-IDENTIFIER: US 4769488 A

**** See image for Certificate of Correction ****TITLE: Batch or semicontinuous pseudocumene oxidation and catalyst recovery and recycle

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
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☐ 40. Document ID: US 4764639 A

L4: Entry 40 of 48

File: USPT

Aug 16, 1988

US-PAT-NO: 4764639

DOCUMENT-IDENTIFIER: US 4764639 A

**** See image for Certificate of Correction ****TITLE: Process for the production of trimellitic acid

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
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☐ 41. Document ID: US 4755622 A

L4: Entry 41 of 48

File: USPT

Jul 5, 1988

US-PAT-NO: 4755622

DOCUMENT-IDENTIFIER: US 4755622 A

** See image for Certificate of Correction **TITLE: Process for the production of trimellitic acid and pyromellitic acid by staged bromine addition in an oxidation of polyalkylaromatics

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|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D. |
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☐ 42. Document ID: US 4754062 A

L4: Entry 42 of 48

File: USPT

Jun 28, 1988

US-PAT-NO: 4754062

DOCUMENT-IDENTIFIER: US 4754062 A

TITLE: Iron-enhanced selectivity of heavy metal-bromine catalysis in the oxidation of polyalkylaromatics

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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D. |
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☐ 43. Document ID: US 4719311 A

L4: Entry 43 of 48

File: USPT

Jan 12, 1988

US-PAT-NO: 4719311

DOCUMENT-IDENTIFIER: US 4719311 A

** See image for Certificate of Correction **

TITLE: Process for the production of aromatic polycarboxylic acids

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|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D. |
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☐ 44. Document ID: US 4500730 A

L4: Entry 44 of 48

File: USPT

Feb 19, 1985

US-PAT-NO: 4500730

DOCUMENT-IDENTIFIER: US 4500730 A

TITLE: Process for producing aromatic polycarboxylic acid

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
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☐ 45. Document ID: US 4398040 A

L4: Entry 45 of 48

File: USPT

Aug 9, 1983

US-PAT-NO: 4398040

DOCUMENT-IDENTIFIER: US 4398040 A

TITLE: Process for producing trimellitic acid

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
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☐ 46. Document ID: US 4346232 A

L4: Entry 46 of 48

File: USPT

Aug 24, 1982

US-PAT-NO: 4346232

DOCUMENT-IDENTIFIER: US 4346232 A

TITLE: Process for producing aromatic polycarboxylic acid

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De |
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☐ 47. Document ID: US 4322549 A

L4: Entry 47 of 48

File: USPT

Mar 30, 1982

US-PAT-NO: 4322549

DOCUMENT-IDENTIFIER: US 4322549 A

**** See image for Certificate of Correction ****TITLE: Oxidation of di- and trimethyl aromatic hydrocarbons having ortho-oriented methyl groups in liquid phthalic acid

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
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☐ 48. Document ID: US 4233227 A

L4: Entry 48 of 48

File: USPT

Nov 11, 1980

US-PAT-NO: 4233227

DOCUMENT-IDENTIFIER: US 4233227 A

TITLE: Phthalic anhydride formation and separation

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequence | Attachments | Claims | KWIC | Draw D |
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